

Fig. 1a

FIG. 1b is a schematic diagram of a system for monitoring a user's posture. The system includes a user 117, a plurality of sensors 115, and a processing unit 121. The sensors 115 are positioned around the user 117 to monitor their posture. The processing unit 121 is connected to the sensors 115 and is configured to process the data received from the sensors 115 to determine the user's posture. The system also includes a display unit 123 and a storage unit 125. The display unit 123 is connected to the processing unit 121 and is configured to display the user's posture. The storage unit 125 is connected to the processing unit 121 and is configured to store the data received from the sensors 115.

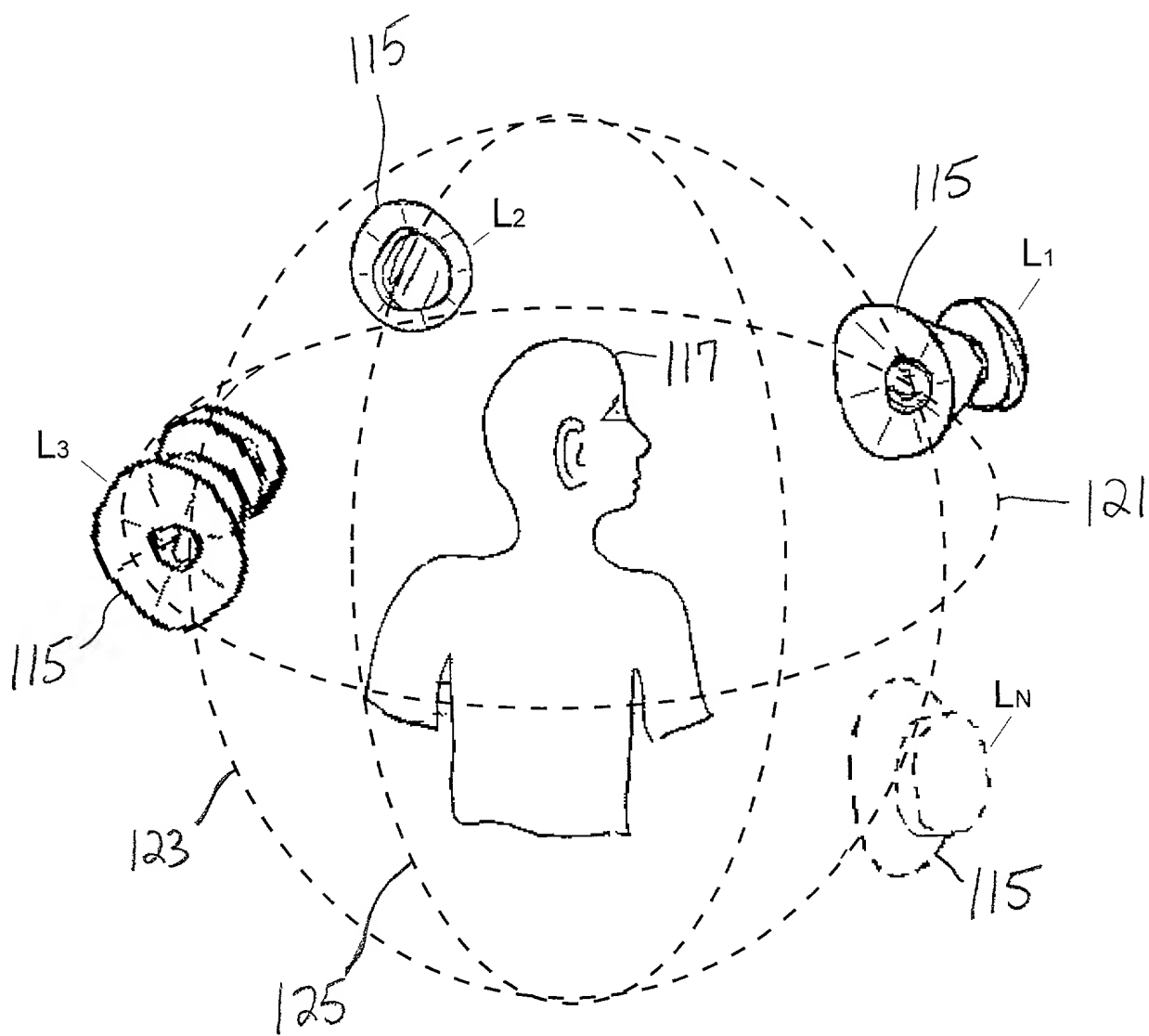


Fig. 1b

Fig. 1c

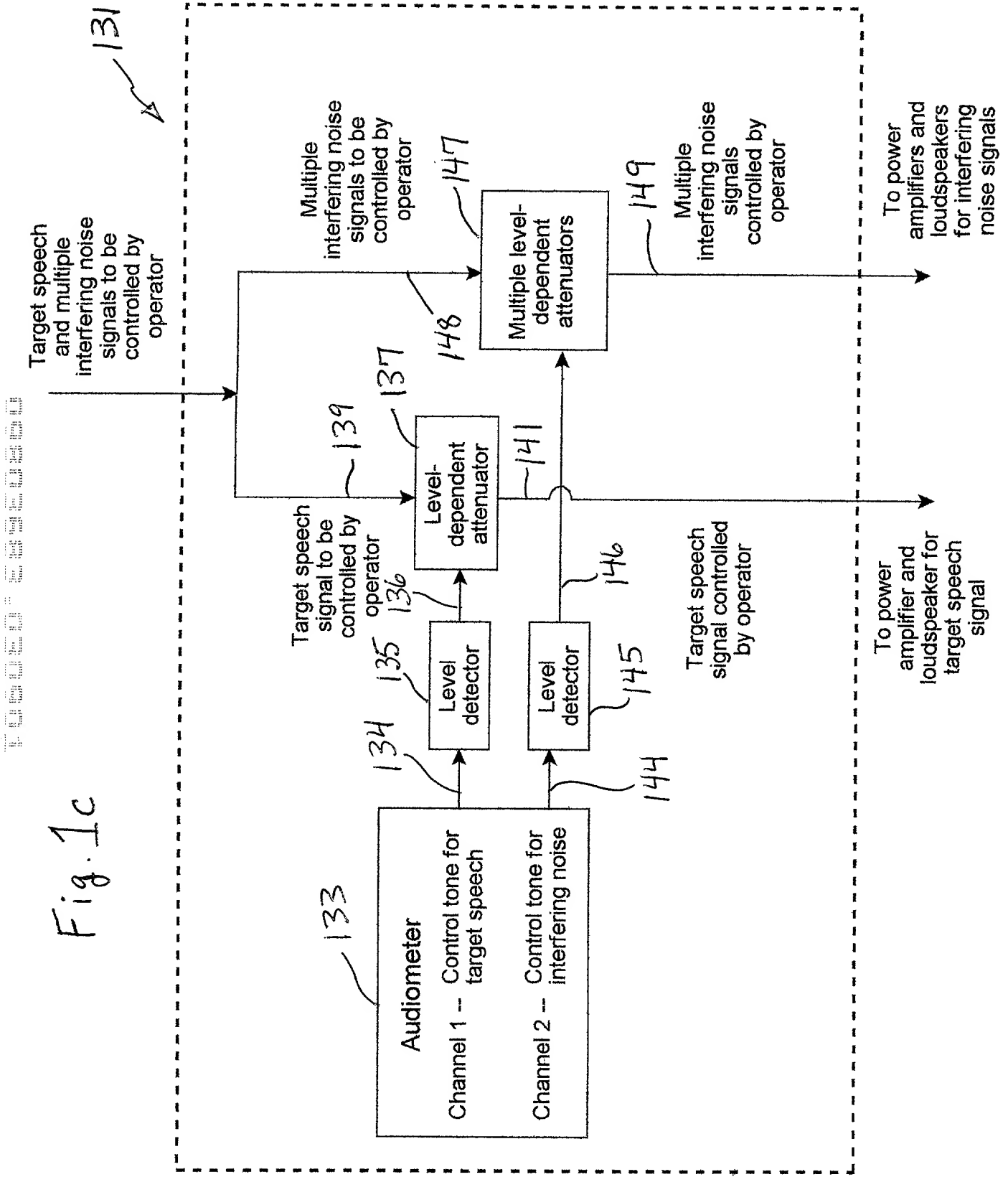
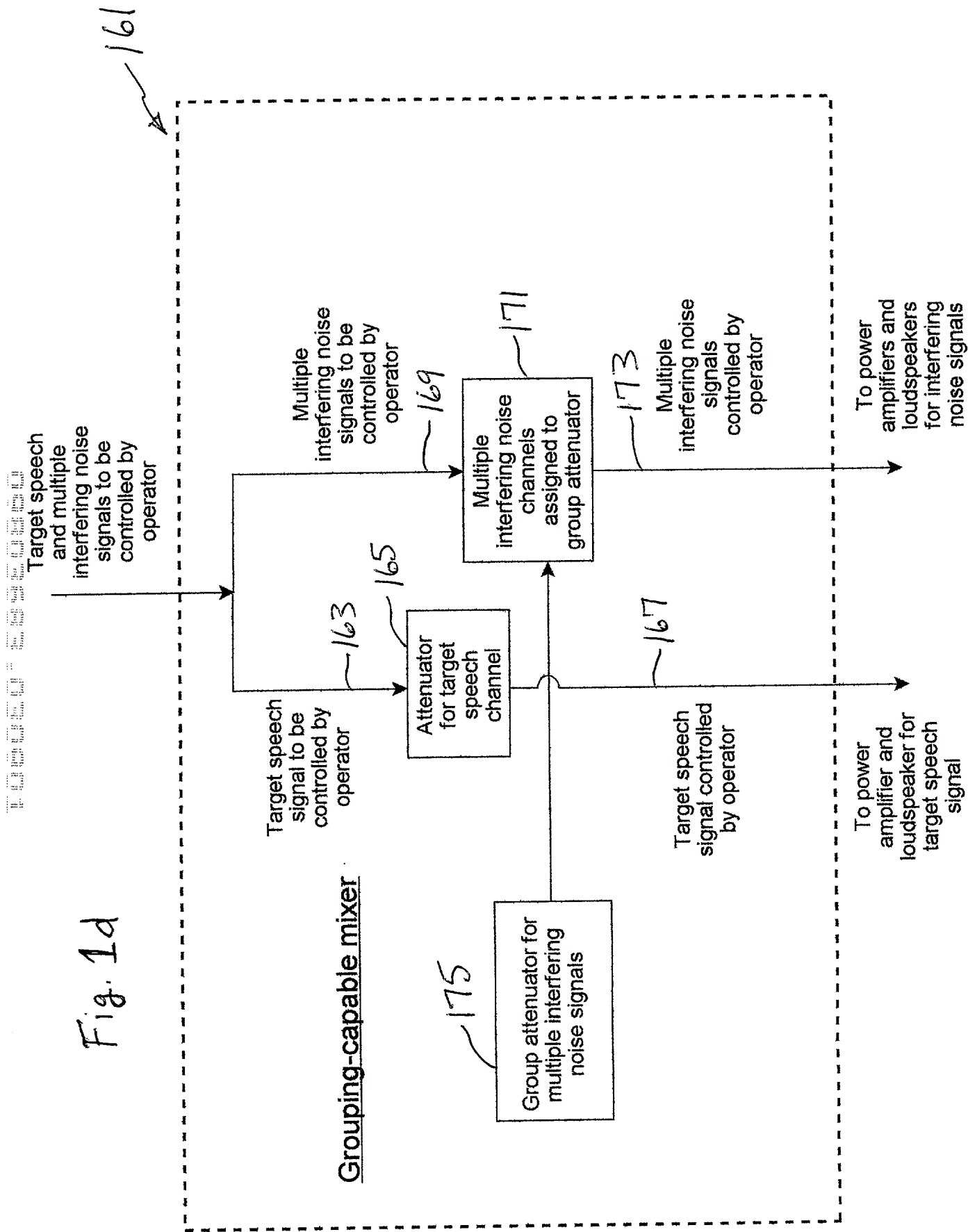


Fig. 1d



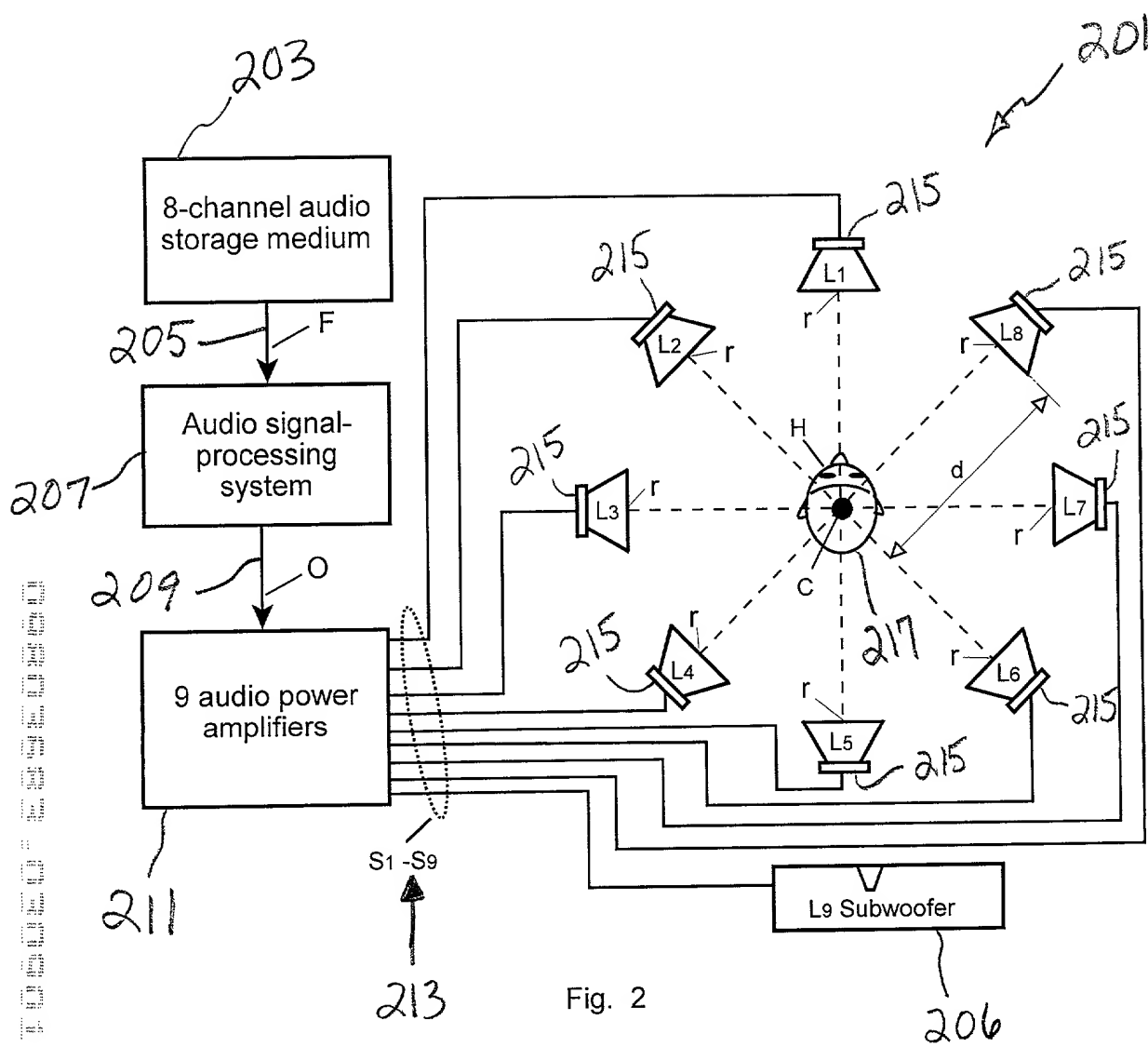


Fig. 2

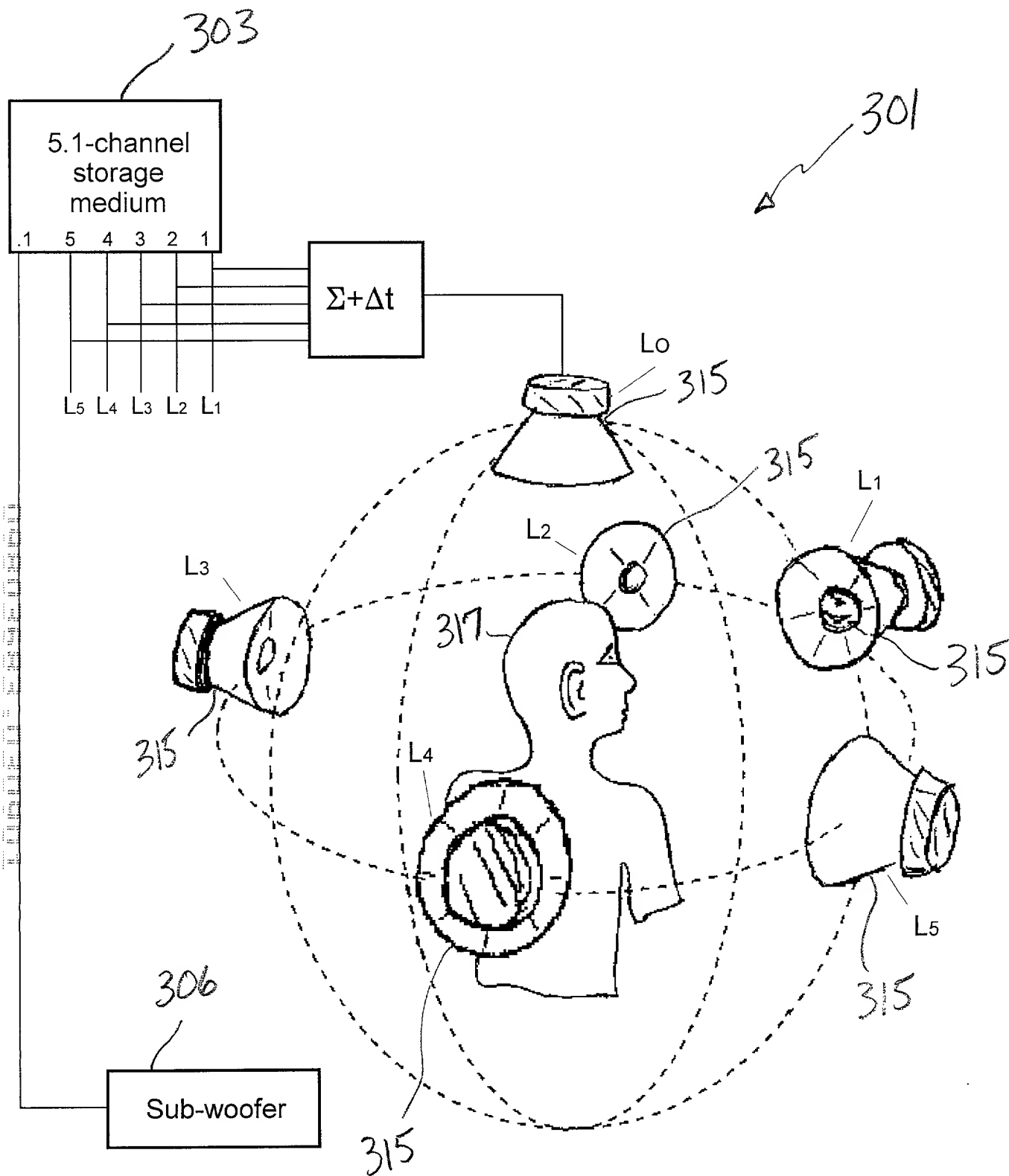


Fig. 3

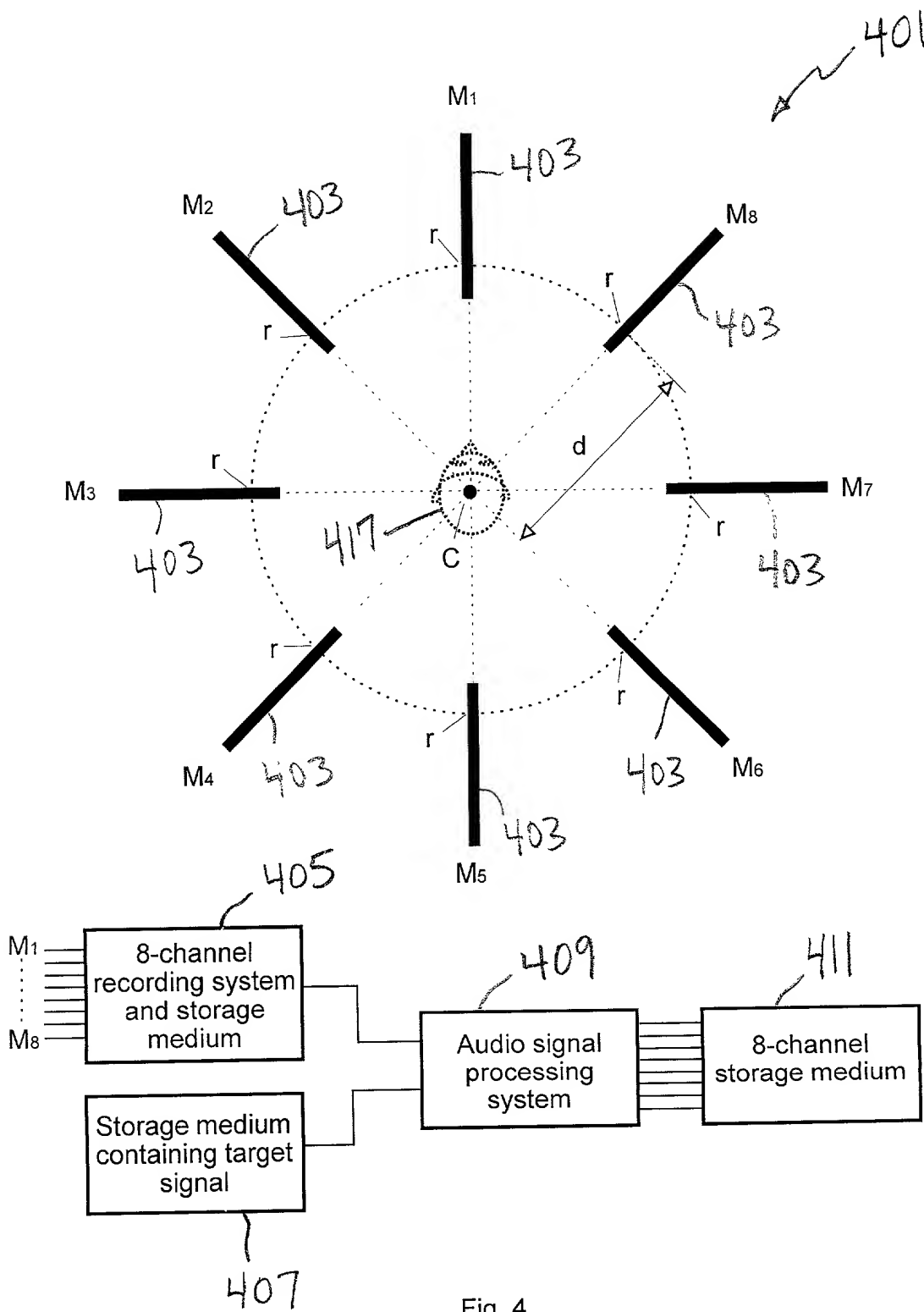


Fig. 4

FIG. 5a is a block diagram of a system for processing B-format audio signals. The system includes a pickup microphone 503, a 4-channel audio signal recording-storage-playback system 505, a B-format decoder and processor with time delay 507, a storage medium containing target signal 511, and a multi-channel audio signal processing and storage system 509. The pickup microphone 503 is oriented with its main axis (Z) pointing up, and its side axes (X and Y) pointing front and left, respectively. The 4-channel audio signal recording-storage-playback system 505 receives B-format outputs (W, X, Y, Z) from the pickup microphone 503. The B-format decoder and processor with time delay 507 receives the B-format outputs (W, X, Y, Z) from the 4-channel audio signal recording-storage-playback system 505. The storage medium containing target signal 511 provides an Omni (W) signal to the B-format decoder and processor with time delay 507. The multi-channel audio signal processing and storage system 509 receives the B-format outputs (W, X, Y, Z) from the B-format decoder and processor with time delay 507. The multi-channel audio signal processing and storage system 509 outputs multiple audio signals to a soundfield simulation apparatus. A listener is shown for orientation of the pickup microphone 503.

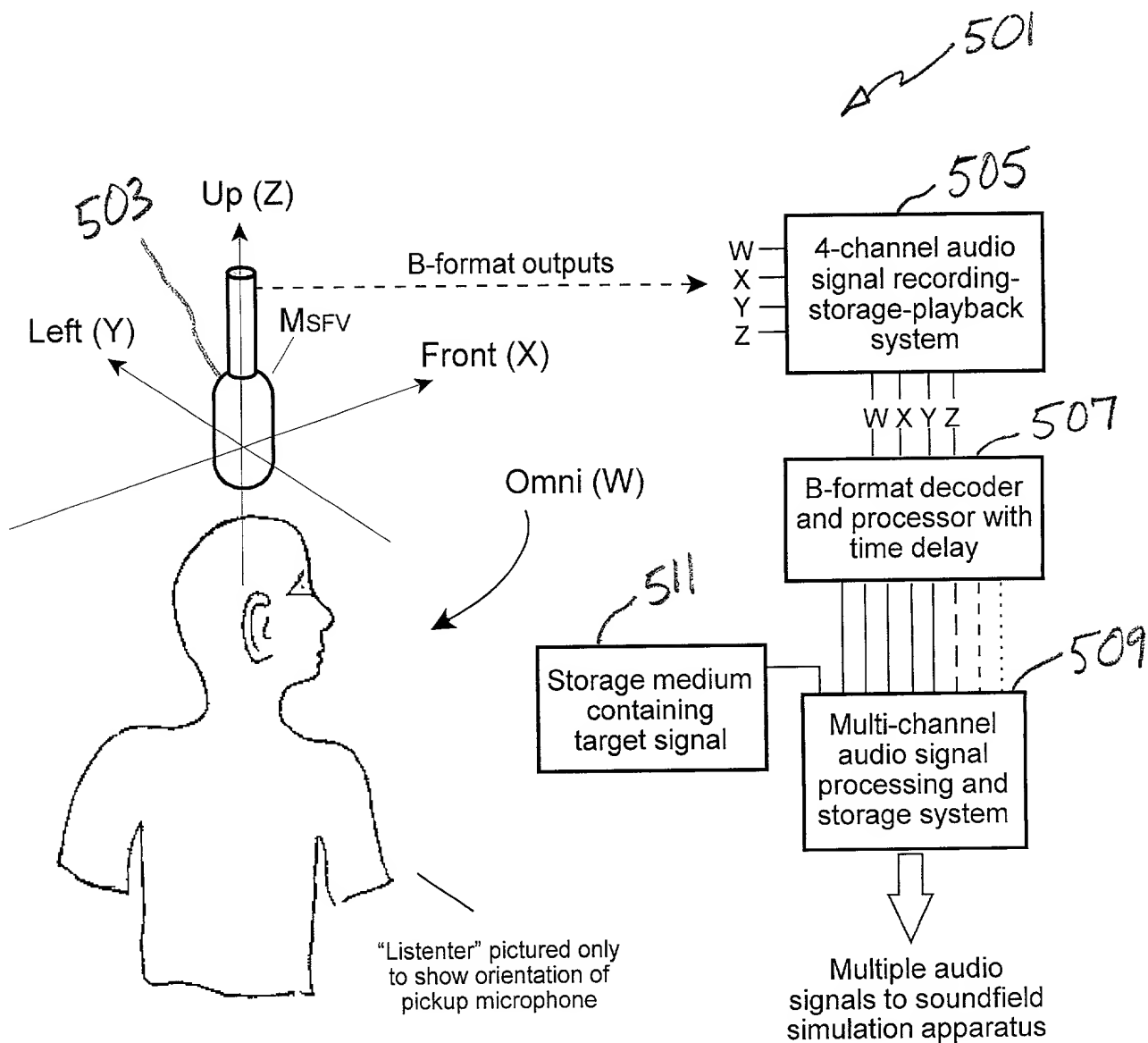


Fig. 5a





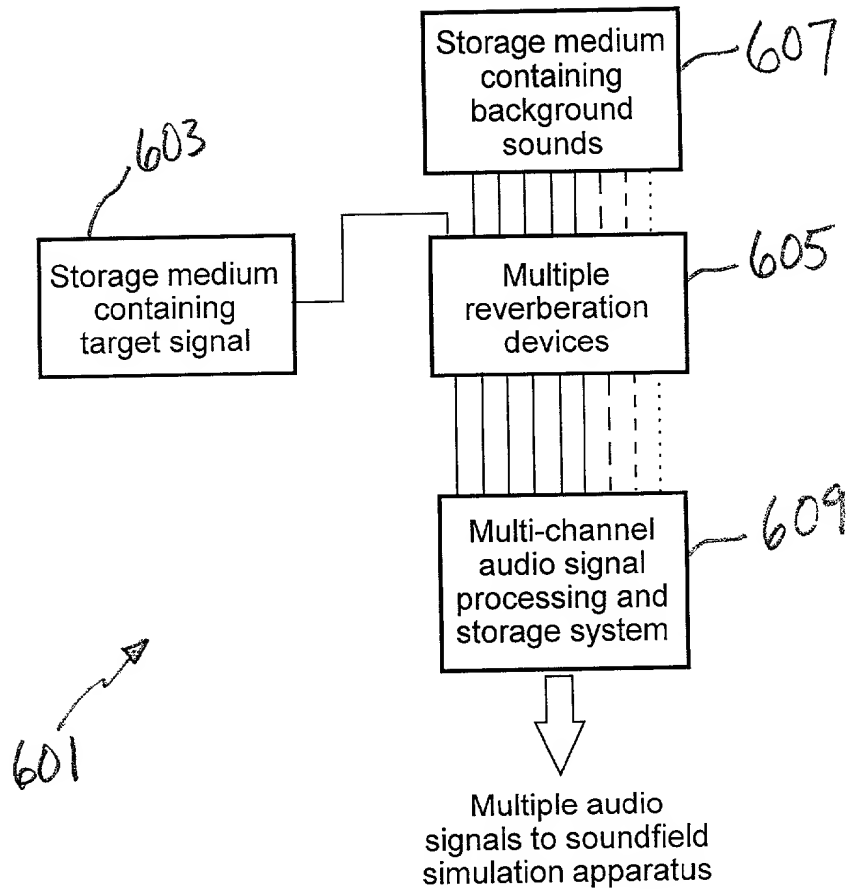


Fig. 6

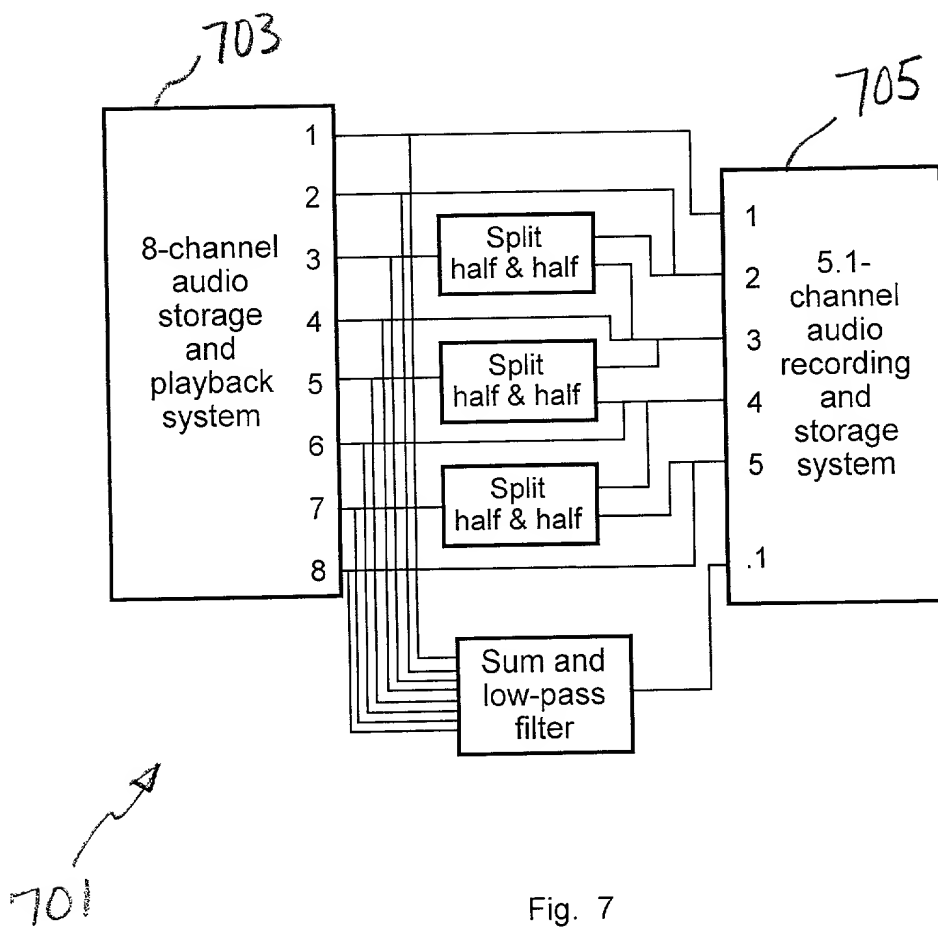


Fig. 7

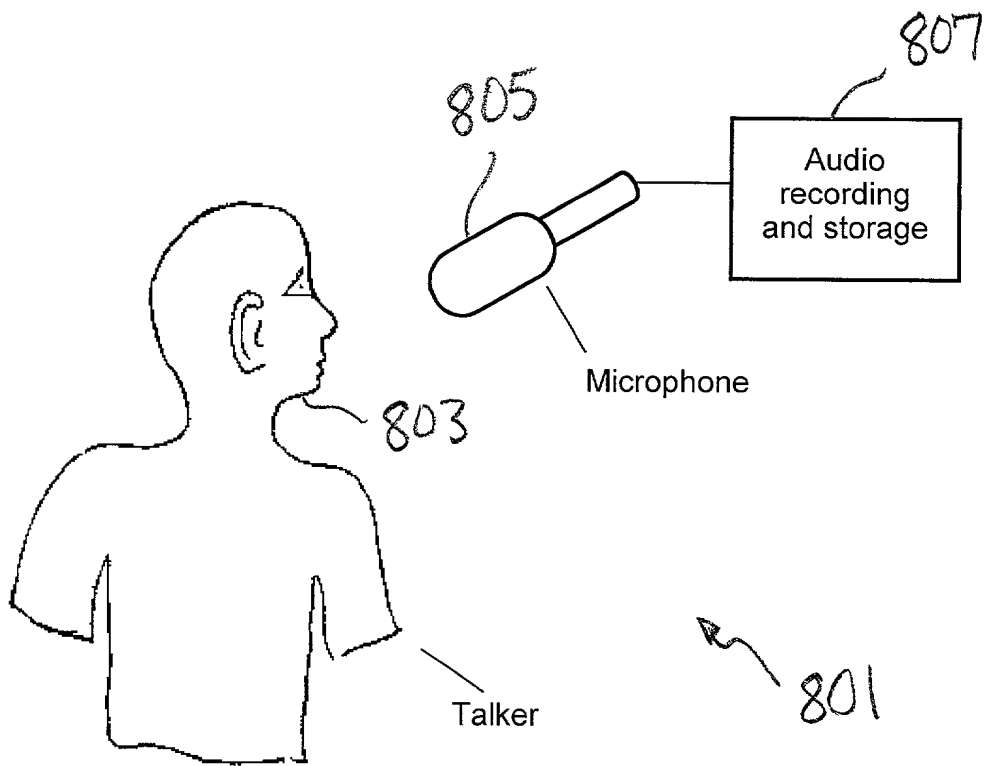


Fig. 8

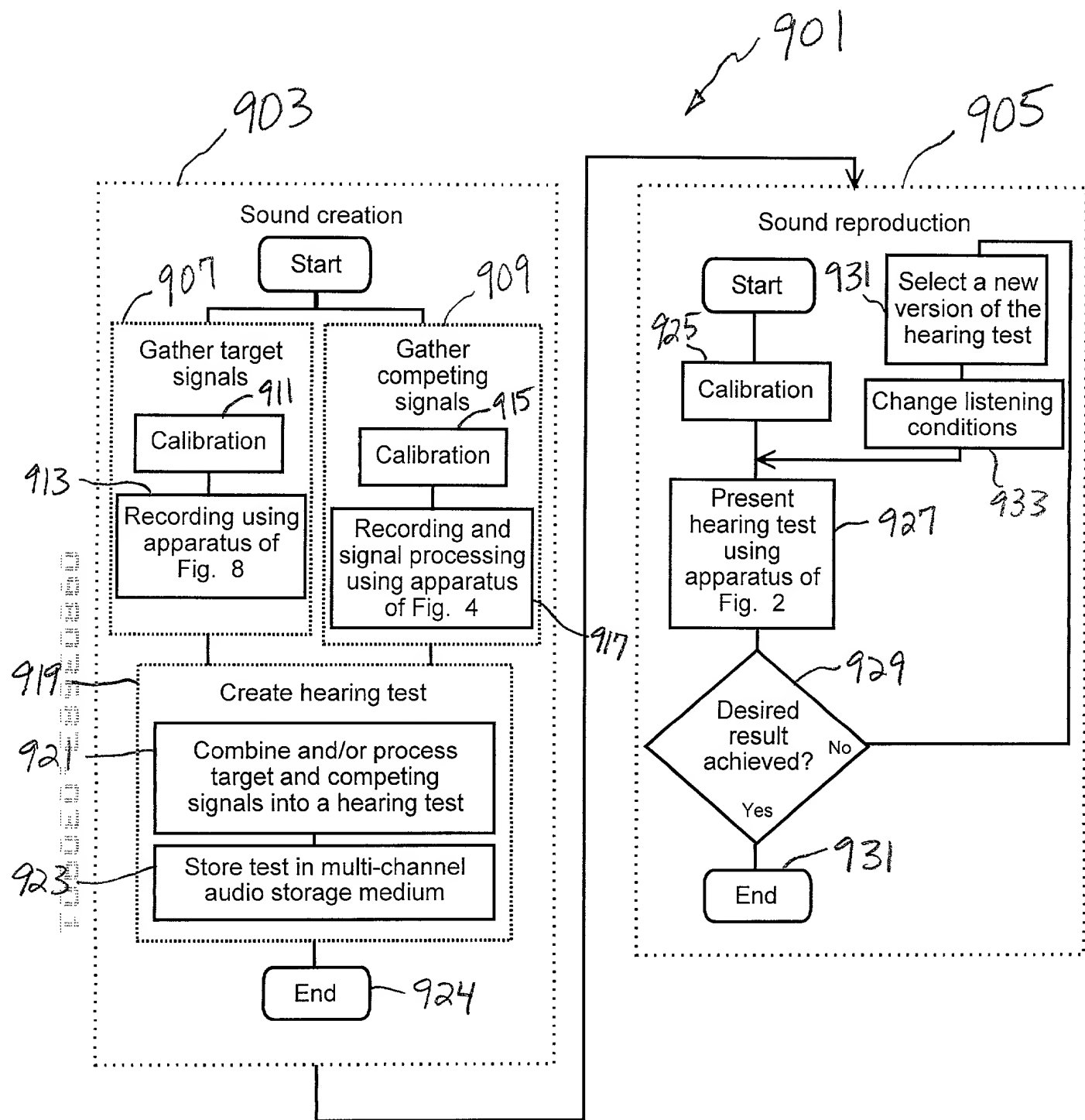


Fig. 9